

Project Details Optics

- Goals:
 1. $\pm 10\%$ deviation within 60 degree acceptance angle
 2. Design optical path for maximum flexibility
 3. Change from Radiance to Irradiance measurements
 4. Investigate SiC photodiodes
- Resources:
 - 2 people 4 months, \$80,000 (1 person additional)



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Exhibit 4

SiC Benefits

- Sensitive only between 200 and 400nm
- Same responsivity as existing photodiode
- "High radiation hardness"
- Available with UVC filter, diffuser, pre-amp
- Usable up to 350° C. Varies 3% over 75°
- Cost of SiC diode: < \$24 ea.
- Cost of existing LP diode: \$17
- Cost of existing MP diode: \$105



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